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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
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10/524,885

02/16/2005

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MAT-8652US

5894

23122 7590 07/30/2008  
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EXAMINER

ROY, SIKHA

ART UNIT

PAPER NUMBER

2879

MAIL DATE

DELIVERY MODE

07/30/2008

PAPER

**Please find below and/or attached an Office communication concerning this application or proceeding.**

The time period for reply, if any, is set in the attached communication.

<b>Office Action Summary</b>	<b>Application No.</b> 10/524,885	<b>Applicant(s)</b> OKAWA ET AL.	
	<b>Examiner</b> Sikha Roy	<b>Art Unit</b> 2879	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

#### Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

#### Status

- 1) ☒ Responsive to communication(s) filed on 22 May 2008.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

#### Disposition of Claims

- 4) ☒ Claim(s) 1,4,5,9 and 10 is/are pending in the application.
- 4a) Of the above claim(s) \_\_\_\_\_ is/are withdrawn from consideration.
- 5) ☐ Claim(s) \_\_\_\_\_ is/are allowed.
- 6) ☒ Claim(s) 1,4,5,9 and 10 is/are rejected.
- 7) ☐ Claim(s) \_\_\_\_\_ is/are objected to.
- 8) ☐ Claim(s) \_\_\_\_\_ are subject to restriction and/or election requirement.

#### Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on \_\_\_\_\_ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.  
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).  
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

#### Priority under 35 U.S.C. § 119

- 12) ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☒ All b) ☐ Some \* c) ☐ None of:
- ☐ Certified copies of the priority documents have been received.
  - ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
  - ☒ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

\* See the attached detailed Office action for a list of the certified copies not received.

#### Attachment(s)

- |                                                                                      |                                                                   |
|--------------------------------------------------------------------------------------|-------------------------------------------------------------------|
| 1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892)          | 4) <input type="checkbox"/> Interview Summary (PTO-413)           |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | Paper No(s)/Mail Date. _____                                      |
| 3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO/SB/08)          | 5) <input type="checkbox"/> Notice of Informal Patent Application |
| Paper No(s)/Mail Date _____                                                          | 6) <input type="checkbox"/> Other: _____                          |

## **DETAILED ACTION**

### ***Continued Examination Under 37 CFR 1.114***

A request for continued examination under 37 CFR 1.114, including the fee set forth in 37 CFR 1.17(e), was filed in this application after final rejection. Since this application is eligible for continued examination under 37 CFR 1.114, and the fee set forth in 37 CFR 1.17(e) has been timely paid, the finality of the previous Office action has been withdrawn pursuant to 37 CFR 1.114. Applicant's submission filed on May 22, 2008 has been entered.

Claims 1,4,5,9 and 10 are pending in the instant application.

### ***Claim Rejections - 35 USC § 103***

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

Claims 1,4,5,9 and 10 are rejected under 35 U.S.C. 102(b) as being anticipated by 'Gas Display Panel', IBM Technical Disclosure Bulletin, June 1974, pages284-285, USPN 5,012,102 to Gowlett and further in view of USPN 5,519,284 to Pepi.

Regarding claim1 the Bulletin discloses (Figs. 1, 3) a display panel comprising a pair of plates (two glass substrates) opposed to each other with an enclosed discharge

space in between and one plate 2 having a communication hole 4 communicating with inside of the display panel and with an exhaust pipe 14 disposed outside the PDP (the pumping stem 14 whose top is open for filling the panel with illuminating gas) and a gas adsorption member 8 having one hole disposed in the vicinity of the hole 4.

The Bulletin does not expressly disclose gas adsorption member being movable within a region of the exhaust pipe.

Gowlett in pertinent field of method of producing vacuum devices discloses (Figs. 1,2 abstract, col. 5 lines 34-55) use of movable getter body 30 to getter gases from the chamber 12 disposed in the evacuation tube 31. Gowlett notes that this arrangement permits inclusion of getter in an inexpensive manner which does not require the getter unit with support element and is compatible with space limitations.

Therefore it would have been obvious to one of ordinary skill in the art at the time of invention to modify the getter ring with support of gas discharge display panel of the Bulletin by a getter ring movable inside the exhaust pipe as suggested by Gowlett for inclusion of getter in an inexpensive manner. Furthermore the Examiner points out that the configuration of 'gas adsorption member being movable' would have been an obvious matter of design choice since the applicant has not disclosed that this configuration solves any stated problem or is for any particular purpose.

The Bulletin and Gowlett are silent about the one or more hole of the gas adsorption member having a combined total cross section area than the cross section area of the communication hole.

Pepi in same field of endeavor discloses (Fig. 3 col. 1 lines 65-67, col.2 line 61 through col. 3 line 24) discloses flat display system comprising a plate 1 and coupled to an exhaust pipe 13, pumping stem having a swelling portion 21 having a diameter significantly larger than the diameter of the vent 22 formed in plate 1, getter element in the form of a ring formed along the periphery of the swelling portion 21 and thus having cross section area greater than that of the vent 22. Pepi discloses this configuration of disposing getter peripherally with respect to the exhaust tube provides the advantage better efficiency of the getter increasing adsorption surface without reducing section of the exhaust tube.

Therefore it would have been obvious to one of ordinary skill in the art at the time of invention to specify the ring adsorption member with one hole of the Bulletin and Gowlett having total cross section area greater than the cross section area of the communication hole as taught by Pepi for providing better efficiency of the getter, increasing adsorption surface without reducing section of the exhaust tube.

Regarding claim 4 the Bulletin, Gowlett and Pepi disclose the one hole of the gas adsorption member is a single hole and has a greater cross section area than the inner cross section area of the exhausting pipe (Pepi Fig. 4).

Regarding claim 5 the Bulletin, Gowlett and Pepi disclose the size of the gas adsorption member is greater than the inner diameter of the exhausting pipe (Pepi Fig. 4) and the diameter of the communication hole 4.

Regarding claims 9 and 10 Pepi discloses plurality of gas adsorption members with ring shapes including at least two holes. Pepi does not explicitly disclose the composite cross sectional area being greater than the inner cross section area of the exhausting pipe. It would be obvious to one of ordinary skill in the art to specify the composite area of the plurality of holes greater than that of the exhausting pipe for providing better efficiency of the getter rings, increasing adsorption surface without reducing section of the exhaust tube.

### ***Response to Arguments***

Applicant's arguments with respect to claim 1 have been considered but are moot in view of the new ground(s) of rejection.

### ***Contact Information***

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Sikha Roy whose telephone number is (571) 272-2463. The examiner can normally be reached on Monday-Friday 8:00 a.m. – 4:30 p.m.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Nimeshkumar D. Patel can be reached on (571) 272-2457. The fax phone number for the organization is (571) 273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should

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you have questions on access to the Private PAIR system contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/Sikha Roy/

Primary Examiner, Art Unit 2879